### PROJECT DESCRIPTION

#### I. GENERAL

This project involves the installation of a new traffic signal at the intersection of Post Office Road and St. Charles Parkway in Charles County. This project is required due to the Post Office Road Improvements Project. Post Office Road is assumed to run in a north south direction.

## II. INTERSECTION OPERATION

This intersection will operate in a NEMA four—phase, fully actuated mode. The left turns on St. Charles Parkway will operate with protected/permitted phasing.

#### III. SPECIAL NOTES

The traffic signal is required by the County as part of the Post Office Road Improvements.

	EQUIF	PMENT LIST
	MENT TO BE SUF ONTRACTOR.	PPLIED BY S.H.A. AND INSTALLED BY
QUANTITY	UNIT SPEC SECTION	DESCRIPTION
1	EA 814	12", ONE-WAY, FIVE SECTION (R,G,Y,YA,GA) ADJUSTABLE TRAFFIC SIGNAL HEAD HAVING PROPER MAST ARM HANGERS AND TUNNEL VISORS.
5	EA 814	12", ONE-WAY, THREE SECTION (R,G,Y) ADJUSTABLE TRAFFIC SIGNAL HEAD HAVING PROPER MAST ARM HANGERS AND TUNNEL VISORS.
2	EA 816	FOUR CHANNEL LOOP DETECTOR AMPLIFIER WITH TIME DELAY OUTPUT.
1	EA 813	R 10-12 36" x 42" SIGN WITH MAST ARM BRACKET
2	EA 813	W 3-3 36" x 36" TEMPORARY SIGN.
1	EA 816	EIGHT PHASE, FULL TRAFFIC ACTUATED, SOLID STATE DIGITAL CONTROLLER WITH HARNESS, TELEMETRYISOLATION BOARD, INTERSECTION MONITOR WITH HARNESS AND BATTERY BACKUP HOUSED IN A BASE MOUNTED CABINET (TO BE USED IN A NEMA SIZE 6 THREE PHASE FULL TRAFFIC ACTUATED MODE).
1	EA 814	8" / 12", ONE-WAY, FIVE SECTION (8" R,Y,G, 12" YA,GA) ADJUSTABLE TRAFFIC SIGNAL HEAD WITH PROPER MAST ARM MOUNTING HARDWARE AND TUNNEL VISORS

AND TUNNEL VISORS.

### EQUIPMENT, LIST

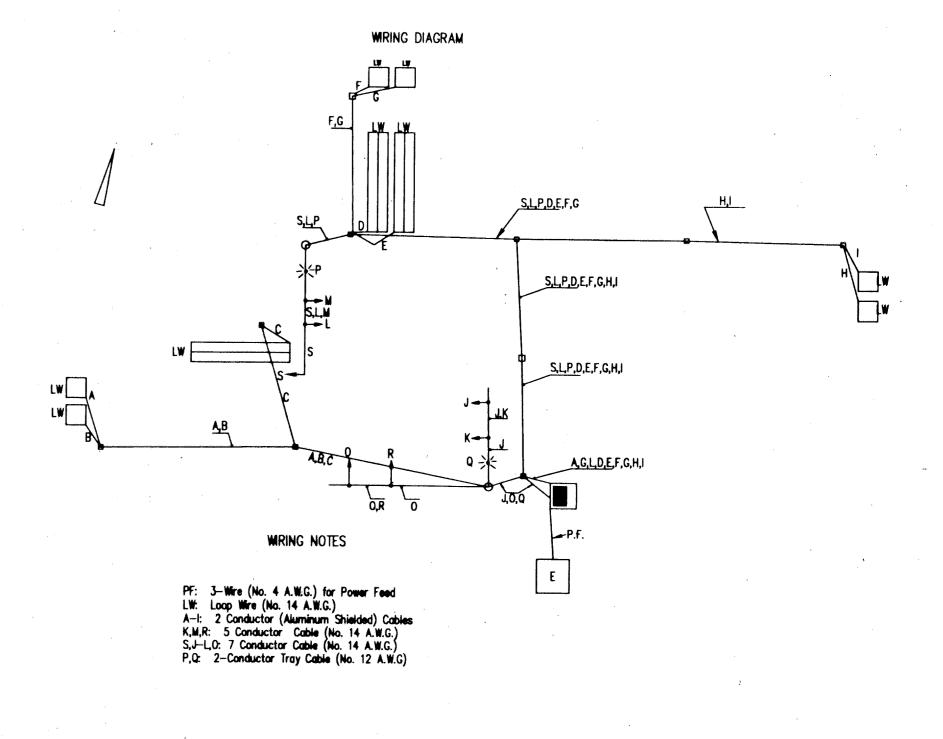
# EQUIPMENT TO BE SUPPLIED BY S.H.A. AND INSTALLED BY THE CONTRACTOR.

	QUANTITY	UNIT	SPEC SECTION	DESCRIPTION
	Lump Sum	LS	108	Mobilization.
	Lump Sum	LS	104	Maintenance of Traffic. (traffic control).
	250	SF	104	Tremporary construction signs
÷	10	UD	104	Flashing arrow panels
	1	EA	818	27' steel mast arm pole with 38' mast arm and 50' mast arm.
	1	EA	818	27' steel mast arm pole with 60' mast arm
	4	EA		1-3/4" x 90" Anchor Bolts
i	4	EA		2" x 90" Anchor Bolts
	555	SF	815	Saw cut.
	1060	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
	10	EA	811	Handhole
	1760	LF	810	2 conductor electrical cable (aluminum shielded).
	450	LF	810	2 conductor tray table (No. 12 A.W.G.)
	360	LF	810	5 conductor electrical cable (No. 14 A.W.G.)
	433	LF	810	7 conductor electrical cable (No. 14 A.W.G.)
	205	LF	805	1" galvanized steel conduit sleeve for detector wire
	125	LF	805	3" PVC schedule 80 conduit (No. 8 A.W.G.)
	15 .	LF	810	3 conductor electrical cable (No. 8 A.W.G.)
	2	EA	806	15' Lighting arm
	2	EA	806	250W H.P.S. Lamp and luminaire
	109	LF	805	2" PVC schedule 80 conduit (slotted)
	60	LF	805	2" PVC schedule 80 conduit (trenched)
	6	LF	805	4" PVC conduit (trenched)
	1	EA	805	4" PVC elbow into cabinet
	110	LF	SP-555	5 Painted pavement markings— white 24" wide for stop line
	700	LF	805	1" PVC conduit (trenched)
	65	LF .	805	2" PVC conduit (trenched)
	9	CY	801	Concrete foundations for signal structure
	1	EA	807	F & I Control and Distribution Equipment
	1	EA	•	As-built plan on CADD (diskette)
	4	CY	205	Test pit excavation

F H WA REGION NO	STATE	FED. AID PROJ. NO	TOTAL SHEETS
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PHASE 1&6	<del>-616</del>	<del>-616</del>	G	R	R	R	R	
1 CHANGE	-YIG	<del>- YIG</del>	G	R	R	R	R	
PHASE 2&6	G	G	G	G	G	R	R	
2&6 CHANGE	Y	Y	Y	Y	Y	R	R	
PHASE 4	R	R	R	R	: R	G	G	
4 CHANGE	R	R	R	R	R	Υ	Y	+
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R (	FL/R	



## MDOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY:	MARTIN	Р
DEŞ. BY:	Ď.H.	'

POST OFFICE ROAD AT ST. CHARLES PARKWAY GENERAL INFORMATION SHEET

\_\_\_\_\_ OF \_\_\_\_2

LOG MILE NO .: COUNTY: CHARLES DATE: NOVEMBER 4, 1996 F.A.P. NO. TS/STD. NO. SHEET NO. , SCALE: 1'' = 20'3633 - GI

MCV ASSOCIATES, INC.

4605-C PINCREST OFFICE PARK DRIVE
ALEXANDRIA, VIRGINIA 22312

CATE: 1 (703) 914-4850